

Amendments to the Claims

Claims 1-26 (Cancelled).

27. (Previously presented) A gate stack, comprising:

a gate oxide layer over a semiconductive substrate;

a polysilicon layer on the gate oxide layer;

a metal silicide layer on the polysilicon layer;

a layer comprising $\text{Si}_x\text{N}_y\text{O}_z\text{:H}$ formed over and in physical contact with the metal silicide, wherein x is from 0.39 to 0.65, y is from 0.02 to 0.56, and z is from 0.05 to 0.33; the metal silicide being the product of a process in which the metal silicide is subjected to an anneal treatment after the layer comprising $\text{Si}_x\text{N}_y\text{O}_z\text{:H}$ is formed; and

a silicon nitride layer on the layer comprising $\text{Si}_x\text{N}_y\text{O}_z\text{:H}$, the polysilicon layer, the gate oxide layer, the metal silicide layer, the layer comprising $\text{Si}_x\text{N}_y\text{O}_z\text{:H}$, and the silicon nitride layer being patterned to form the gate stack.

Claims 28-32 (Cancelled).

33. (Previously presented) The gate stack of Claim 27, where the layer comprising $\text{Si}_x\text{N}_y\text{O}_z\text{:H}$ has a thickness of from about 250Å to about 650Å.

Claims 34-35 (Cancelled).

36. (Previously presented) The gate stack of claim 27 wherein y is from 0.02 to less than 0.1.

37. (Previously presented) The gate stack of claim 27 wherein $x=0.5$, $y=0.37$ and $z=0.13$.

38. (Previously presented) The gate stack of claim 27 wherein the metal silicide layer comprises titanium.

39. (Currently amended) A gate stack comprising:
a polysilicon layer over a semiconductive substrate;
a metal-comprising layer over the polysilicon layer;
an antireflective material on and in direct physical contact with the metal comprising layer, the antireflective material comprising carbon, nitrogen, silicon, oxygen and hydrogen;
and

a silicon nitride layer on the antireflective material.

40. (Previously presented) The gate stack of claim 39 wherein the antireflective material comprises greater than about 1% carbon, by weight.

41. (Previously presented) The gate stack of claim 39 wherein the antireflective material comprises $\text{Si}_x\text{N}_y\text{O}_z\text{:H}$, where x is from 0.39 to 0.65, y is from 0.02 to 0.56, and z is from 0.05 to 0.33.

42. (Previously presented) The gate stack of claim 39 wherein the metal-comprising layer is a metal silicide layer.

43. (Previously presented) The gate stack of claim 39 wherein the metal-comprising layer comprises at least one of tungsten and titanium.